

Circuit arrangement for microcomputer-controllable inductors, capacitors and L/C circuits

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Abstract of DE4329705

Electronically controllable capacitors (C), in particular for radiofrequency-suitable applications, are implemented by C diodes. However, modulation distortion and other disadvantages can be a hindrance in different applications. Electronically controllable, radiofrequency-suitable inductors (L) are not commercially available at all. The novel integrated component (IC) according to the present invention is a help here: it comprises a mu C bus receiving circuit, a digital control circuit and an array-like arrangement of weighted Ls and/or Cs or predimensioned L/C circuits. Depending on the mu C control command, various values of L and/or C or filter characteristics are available at the terminals of the IC. This IC can be used to implement tracking filters which are resistant to overmodulation (overloading) and have a hitherto unknown complexity and changeover speed. The novel IC according to the present invention can also be incorporated in the tried and tested I<2>C bus control concept.

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